

WHAT IS CLAIMED IS:

1 1. A method of assisting in forming plans of measures for
2 management reforms, which is executed by an information processor,
3 wherein:

4 a general business-operation-index group including a plurality of
5 indexes indicating the condition of business operation of an enterprise, a
6 general plan-of-measures group including a plurality of plans of measures,
7 each of which is information showing how to deal with the condition
8 indicated by the respective indexes included in said general
9 business-operation-index group, and the first correlation-information group
10 including a plurality of correlation information, each of which defines the
11 correlation between the respective indexes included in the general
12 business-operation-index group and the respective plans of measures
13 included in the general plan-of-measures group are stored in a data storage
14 device;

15 a problem-index group is produced by extracting, as problem
16 indexes indicating problems in the business operations to be improved, one
17 or more business operation indexes from the general operation-index group
18 and stored in the data storage device;

19 the second correlation-information group is produced by extracting
20 correlation information relating to the problem indexes included in the
21 problem-index group from the first correlation-information group;

22 a potential plan-of-measures group is produced by selecting one or

23 more plans of measures relating to the second correlation-information group
 24 from the general plan-of-measures group; and
 25 the resultant one or more potential plans of measures included in
 26 the potential plans-of-measures group are output.

1 2. The method of assisting in forming plans of measures for
 2 management reforms according to Claim 1, wherein:
 3 risk level information indicating levels of risk caused when the each
 4 plan of measures included in the general plan-of-measures group is executed
 5 is further stored in the data storage device;
 6 input of information designating the acceptable risk level is
 7 accepted by the information processor; and
 8 the second correlation-information group is produced by extracting
 9 information which define correlation relating to the problem indexes and to
 10 plans of measures having a risk level equal or lower than the input risk
 11 level, from the first correlation-information group.

1 3. The method of assisting in forming plans of measures for
 2 management reforms according to Claim 2, wherein:
 3 gross investment information indicating the amount of investment
 4 necessary to execute the each plan of measures included in the general
 5 plan-of-measures, and a business-operation-index-profit
 6 correlation-information group including correlation information which
 7 correlate the profit of the enterprise with the general business operation
 8 indexes, are further stored in the data storage device;
 9 a problem-index - profit correlation-information group is produced

by extracting information which describe correlation relating to the problem indexes from the business-operation-index profit correlation-information group;

input of the gross investment intended to invest in management reforms is accepted by the information processor;

a final plan-of-measures group including plans of measures which maximize the profit of the enterprise is found out from the potential plan of means included in the potential plan-of-measures group, under the limiting conditions that the gross investment necessary to execute the each selected plan of measures is equal or lower than the input gross investment and that the each plans of measures is either adopted or not adopted; and

the resultant final plans of measures are output.

4. The method of assisting in forming plans of measures for management reforms according to Claim 3, wherein:

input of target profit of the enterprise is accepted by the information processor; and

it is judged whether the profit of the enterprise obtained by the each found plans of measures is equal or larger than the input target profit, to output the plans of measures when it is equal or larger.

5. The method of assisting in forming plans of measures for management reforms according to Claim 4, wherein:

change of the risk level is accepted by the information processor when the profit of the enterprise given by the found plans of measures is less than the target profit; and

6 when the risk level is changed, information which define
 7 correlation relating to the problem indexes and to the plans of measures
 8 having a risk level equal or lower than the changed risk level are selected
 9 from the first correlation-information group, to produce the second
 10 correlation-information group.

1 6. The method of assisting in forming plans of measures for
 2 management reforms according to Claim 4, wherein:

3 change of the gross investment is accepted by the information
 4 processor when the profit of the enterprise given by the found plan of
 5 measures is lower than the target profit;

6 a final plan of measures which maximizes the profit of the
 7 enterprise are found from the selected potential plans of measures under the
 8 limiting conditions that the gross investment necessary to execute the
 9 selected plan of measures is equal or lower than the changed gross
 10 investment and that the each plan of measures is either adopted or not
 11 adopted; and

12 the resultant final plans of measures are output.

1 7. The method of assisting in forming plans of measures for
 2 management reforms according to Claim 1, wherein:

3 a general business-operation-index vector f as the general
 4 operation-index group, a general plan-of-measures vector x as the general
 5 plan-of-measures group, and an operation-index - plan-of-measures matrix
 6 M_m as the first correlation-information group are stored in the data storage
 7 device, respectively;

8 a problem-index vector f is produced by extracting, as problem
 9 indexes indicating problems in the business operations to be improved, one
 10 or more business operation indexes from the general operation-index vector f
 11 and stored in the data storage device;

12 a problem-index - plan-of-measures matrix Mm' is produced, as the
 13 second correlation-information group, by extracting correlation information
 14 relating to the problem indexes included in the problem-index vector f , from
 15 the business-operation-index - plan-of-measures matrix Mm ; and

16 a potential plan-of-measures vector x' is produced by selecting one
 17 or more plans of measures relating to the problem-index - plan-of-measures
 18 matrix Mm' from the general plan-of-measures vector f .

1 8. The method of assisting in forming plans of measures for
 2 management reforms according to Claim 7, wherein:

3 risk level information indicating levels of risk caused when the each
 4 plan of measures included in the general plan-of-measures vector x is
 5 executed is further stored in the data storage device;

6 input of information designating the acceptable risk level is
 7 accepted by the information processor; and

8 the problem-index - plan-of-measures matrix Mm' is produced by
 9 extracting information which define correlation relating to the problem
 10 indexes and to the plans of measures having a risk level equal or lower than
 11 the input risk level, from the business-operation-index - plan-of-measures
 12 matrix Mm .

1 9. The method of assisting in forming plans of measures for

management reforms according to Claims 7, wherein:

information indicating the amount of investment necessary to execute the respective plans of measures, and a business-operation-index - profit matrix M_p which correlates the profit of the enterprise with the general business operation indexes, are stored in the storage device together with the general plans of measures;

a business-operation-index - profit matrix M_p' including elements relating to the selected problem-index vector f' is produced from the business-operation-index - profit matrix M_p ;

input of the gross investment intended to invest in management reforms is accepted by the information processor;

a final plan of measures which maximizes the profit of the enterprise is found from the selected plan-of-means vector x' as the potential plans of measures, under the limiting conditions that gross investment necessary to execute the each selected plan of measures is equal or lower than the input gross investment and that the each plan of measures is either adopted or not adopted; and

the resultant final plan of measures is output.

10. A method of assisting in forming plans of measures for management reforms, which is executed by an information processor, wherein:

a general business-operation-index group including a plurality of indexes indicating the condition of business operation of an enterprise, a general plan-of-measures group including a plurality of plans of measures, each of which is information showing how to deal with the condition indicated by the

8 respective indexes included in said general business-operation-index group,
 9 the first correlation-information group including a plurality of correlation
 10 information, each of which defines the correlation between the respective
 11 indexes included in the general business-operation-index group and the
 12 respective plans of measures included in the general plan-of-measures group,
 13 gross investment information indicating the amount of investment necessary
 14 to execute the each plan of measures included in the general
 15 plan-of-measures, and a business-operation-index - profit
 16 correlation-information group including correlation information which
 17 correlate the profit of the enterprise with the general business operation
 18 indexes, are stored in a data storage device;

19 a problem-index group is produced by extracting, as problem
 20 indexes indicating problems in the business operations to be improved, one
 21 or more business operation indexes from the general operation-index group
 22 and stored in the data storage device;

23 the second correlation-information group is produced by extracting
 24 correlation information relating to the problem indexes included in the
 25 problem-index group from the first correlation-information group;

26 a potential plan-of-measures group is produced by selecting one or
 27 more plans of measures relating to the second correlation-information group
 28 from the general plan-of-measures group;

29 a problem-index - profit correlation-information group is produced
 30 by extracting information which describe correlation relating to the problem
 31 indexes from the business-operation-index -profit correlation-information
 32 group;

33 input of the gross investment intended to invest in management

34 reforms is accepted by the information processor;

35 a final plan-of-measures group including plans of measures which
36 maximize the profit of the enterprise is found out from the potential plan of
37 means included in the potential plan-of-measures group, under the limiting
38 conditions that the gross investment necessary to execute the each selected
39 plan of measures is equal or lower than the input gross investment and that
40 the each plans of measures is either adopted or not adopted; and
41 the resultant final plans of measures are output.

1 11. A system of assisting in forming plans of measures for management
2 reforms executed by an information processor, wherein:

3 said information processor includes an input device, a data storage
4 device, a central processor, and an output device;

5 said data storage device stores a general business-operation-index
6 group including a plurality of indexes indicating the condition of business
7 operation of an enterprise, a general plan-of-measures group including a
8 plurality of plans of measures, each of which is information showing how to
9 deal with the condition indicated by the respective indexes included in said
10 general business-operation-index group, a first correlation-information group
11 including a plurality of correlation information, each of which defines the
12 correlation between the respective indexes included in the general
13 business-operation-index group and the respective plans of measures
14 included in the general plan-of-measures group, and a problem-index group
15 produced by extracting, as problem indexes indicating problems in the
16 business operations to be improved, one or more business operation indexes
17 from the general operation-index group; and

18 said central processor executes the following steps of:
 19 producing a second correlation-information group by extracting
 20 correlation information relating to the problem indexes included in the
 21 problem-index group from the first correlation-information group;
 22 producing a potential plan-of-measures group by selecting one or
 23 more plans of measures relating to the second correlation-information group
 24 from the general plan-of-measures group; and
 25 outputting the resultant one or more potential plans of measures
 26 included in the potential plan-of-measures group through the input/output
 27 device.

1 12. The system of assisting in forming plans of measures for
 2 management reforms executed by an information processor according to
 3 Claim 11, wherein:

4 the data storage device further stores risk level information
 5 indicating levels of risk caused when the each plan of measures included in
 6 the general plan-of-measures group is executed; and

7 the central processor executes the following steps of:

8 accepting input of information designating the acceptable risk level;

9 and

10 producing the second correlation-information group by extracting
 11 information which define correlation relating to the problem indexes and to
 12 plans of measures having a risk level equal or lower than the input risk
 13 level, from the first correlation-information group.

1 13. The system of assisting in forming plans of measures for

2 management reforms executed by an information processor according to
3 Claim 12, wherein:

4 the data storage device further stores gross investment information
5 indicating the amount of investment necessary to execute the each plan of
6 measures included in the general plan-of-measures, and a
7 business-operation-index - profit correlation-information group including
8 correlation information which correlate the profit of the enterprise with the
9 general business operation indexes; and

10 the central processor further executes the following steps of:

11 producing a problem-index - profit correlation-information group by
12 extracting information which describe correlation relating to the problem
13 indexes from the business-operation-index - profit correlation-information
14 group;

15 accepting input of the gross investment intended to invest in
16 management reforms;

17 finding a final plan-of-measures group including plans of measures
18 which maximize the profit of the enterprise from the potential plan of means
19 included in the potential plan-of-measures group, under the limiting
20 conditions that the gross investment necessary to execute the each selected
21 plan of measures is equal or lower than the input gross investment and that
22 the each plans of measures is either adopted or not adopted; and

23 outputting the resultant final plans of measures through the output
24 device.

1 14. The system of assisting in forming plans of measures for
2 management reforms executed by an information processor according to

3 Claim 13, wherein:

4 the central processor further executes the following steps of:

5 accepting input of target profit of the enterprise through the input
6 device; and

7 judging whether the profit of the enterprise obtained by the each
8 found plans of measures is equal or larger than the input target profit, to
9 output the plans of measures through the output device when it is equal or
10 larger.

1 15. The system of assisting in forming plans of measures for
2 management reforms executed by an information processor according to
3 Claim 14, wherein:

4 the central processor further executes the following steps of:

5 accepting change of the risk level when the profit of the enterprise
6 given by the found plans of measures is less than the target profit through
7 the input device; and

8 when the risk level is changed, selecting information which define
9 correlation relating to the problem indexes and to the plans of measures
10 having a risk level equal or lower than the changed risk level from the first
11 correlation-information group, to produce the second correlation-information
12 group.

1 16. The system of assisting in forming plans of measures for
2 management reforms executed by an information processor according to
3 Claim 14, wherein:

4 the central processor further executes the following steps of:

5 accepting change of the gross investment when the profit of the
6 enterprise given by the found plan of measures is lower than the target profit
7 through the input device;

8 finding a final plan of measures which maximizes the profit of the
9 enterprise from the selected potential plans of measures under the limiting
10 conditions that the gross investment necessary to execute the selected plan
11 of measures is lower than the changed gross investment and that the each
12 plan of measures is either adopted or not adopted; and

13 outputting the resultant final plans of measures through the output
14 device.

1 17. A program product read in and executed by a computer having a
2 storage device to cause said computer to perform processing of assisting in
3 forming plans of measures for management reforms, wherein:

4 the program causes the computer to perform the following
5 processing of:

6 storing a general business-operation-index group including a
7 plurality of indexes indicating the condition of business operation of an
8 enterprise, a general plan-of-measures group including a plurality of plans of
9 measures, each of which is information showing how to deal with the
10 condition indicated by the respective indexes included in said general
11 business-operation-index group, and the first correlation-information group
12 including a plurality of correlation information, each of which defines the
13 correlation between the respective indexes included in the general
14 business-operation-index group and the respective plans of measures
15 included in the general plan-of-measures group in a data storage device;

16 producing a problem-index group by extracting, as problem indexes
17 indicating problems in the business operations to be improved, one or more
18 business operation indexes from the general operation-index group and
19 stored in the data storage device;

20 producing the second correlation-information group by extracting
21 correlation information relating to the problem indexes included in the
22 problem-index group from the first correlation-information group;

23 producing a potential plan-of-measures group by selecting one or
24 more plans of measures relating to the second correlation-information group
25 from the general plan-of-measures group; and

26 outputting the resultant one or more potential plans of measures
27 included in the potential plans-of-measures group.

1 18. The program product for performing processing of assisting in
2 forming plans of measures for management reforms according Claim 17,
3 wherein:

4 the program causes the computer to further perform the following
5 processing of:

6 further storing risk level information indicating levels of risk
7 caused when the each plan of measures included in the general
8 plan-of-measures group is executed in the data storage device;

9 accepting input of information designating the acceptable risk level;

10 and

11 producing the second correlation-information group by extracting
12 information which define correlation relating to the problem indexes and to
13 plans of measures having a risk level equal or lower than the input risk

14 level, from the first correlation-information group.

1 19. The program product for performing processing of assisting in
2 forming plans of measures for management reforms according Claim 18,
3 wherein:

4 the program causes the computer to further perform the following
5 processing of:

6 further storing gross investment information indicating the amount
7 of investment necessary to execute the each plan of measures included in the
8 general plan-of-measures, and a business-operation-index - profit
9 correlation-information group including correlation information which
10 correlate the profit of the enterprise with the general business operation
11 indexes in the data storage device;

12 producing a problem-index - profit correlation-information group by
13 extracting information which describe correlation relating to the problem
14 indexes from the business-operation-index -profit correlation-information
15 group;

16 accepting input of the gross investment intended to invest in
17 management reforms;

18 finding a final plan-of-measures group including plans of measures
19 which maximize the profit of the enterprise from the potential plan of means
20 included in the potential plan-of-measures group, under the limiting
21 conditions that the gross investment necessary to execute the each selected
22 plan of measures is equal or lower than the input gross investment and that
23 the each plans of measures is either adopted or not adopted; and

24 outputting the resultant final plans of measures.

1 20. The program product for performing processing of assisting in
2 forming plans of measures for management reforms according Claim 19,
3 wherein:

4 the program causes the computer to further perform the following
5 processing of:

6 accepting input of target profit of the enterprise; and

7 judging whether the profit of the enterprise obtained by the each
8 found plans of measures is equal or larger than the input target profit, to
9 output the plans of measures when it is equal or larger.

1 21. The program product for performing processing of assisting in
2 forming plans of measures for management reforms according Claim 20,
3 wherein:

4 the program causes the computer to further perform the following
5 processing of:

6 accepting change of the risk level when the profit of the enterprise
7 given by the found plans of measures is less than the target profit; and

8 when the risk level is changed, selecting information which define
9 correlation relating to the problem indexes and to the plans of measures
10 having a risk level equal or lower than the changed risk level from the first
11 correlation-information group, to produce the second correlation-information
12 group.

1 22. The program product for performing processing of assisting in
2 forming plans of measures for management reforms according Claim 20,
3 wherein:

4 the program causes the computer to further perform the following
5 processing of:

6 accepting change of the gross investment when the profit of the
7 enterprise given by the found plan of measures is equal or lower than the
8 target profit;

9 finding a final plan of measures which maximizes the profit of the
10 enterprise from the selected potential plans of measures under the limiting
11 conditions that the gross investment necessary to execute the selected plan
12 of measures is lower than the changed gross investment and that the each
13 plan of measures is either adopted or not adopted; and

14 outputting the resultant final plans of measures.

1 23. A method of assisting in forming plans of measures for
2 management reforms, which is executed by an information processor,
3 wherein:

4 a general business-operation-index group including a plurality of
5 indexes indicating the condition of business operation of an enterprise, a
6 general plan-of-measures group including a plurality of plans of measures,
7 each of which is information showing how to deal with the condition
8 indicated by the respective indexes included in said general
9 business-operation-index group, a first correlation-information group
10 including a plurality of correlation information, each of which defines the
11 correlation between the respective indexes included in the general
12 business-operation-index group and the respective plans of measures
13 included in the general plan-of-measures group and reference data, to which
14 the condition of business operation of said enterprise is compared, are stored

15 in a data storage device;

16 input of information indicating the current condition of business
17 operation of the enterprise is accepted by the information processor;

18 a problem-index group is produced by extracting, as problem
19 indexes indicating problems in the business operations to be improved, one
20 or more business operation indexes from the general operation-index group,
21 on the basis of the result obtained by comparing the information indicating
22 the current condition of business operation of the enterprise with the
23 reference data for comparison and stored in the data storage device;

24 a second correlation-information group is produced by extracting
25 correlation information relating to the problem indexes included in the
26 problem-index group from the first correlation-information group;

27 a potential plan-of-measures group is produced by selecting one or
28 more plans of measures relating to the second correlation-information group
29 from the general plan-of-measures group; and

30 the resultant one or more potential plans of measures included in
31 the potential plans-of-measures group are output.

1 24. The method of assisting in forming plans of measures for
2 management reforms according to Claim 23, wherein:

3 reference data for comparison, which correspond to the category of
4 business to which the enterprise belongs, are downloaded from a sever
5 accumulating reference data for comparison via a network, and the
6 problem-index group is produced by using the downloaded reference data for
7 comparison.

1 25. The method of assisting in forming plans of measures for
2 management reforms according to Claim 23, wherein:

3 reference data for comparison, which correspond to the category of
4 business to which the enterprise belongs, are downloaded from a sever
5 network accumulating reference data for comparison via a network and a
6 program of assisting in forming plans of measures is downloaded from a
7 server accumulating the same,

8 the downloaded program executes by the use of the reference data
9 for comparison the following processing of:

10 accepting input of information indicating the current condition
11 of business operation of the enterprise;

12 producing the problem-index group;

13 producing the second correlation-information group;

14 selecting the potential plan-of-measures; and

15 outputting the potential plans of measures.

1 26. The method of assisting in forming plans of measures for
2 management reforms according to Claims 8, wherein:

3 information indicating the amount of investment necessary to
4 execute the respective plans of measures, and a business-operation-index -
5 profit matrix M_p which correlates the profit of the enterprise with the
6 general business operation indexes, are stored in the storage device together
7 with the general plans of measures;

8 a business-operation-index - profit matrix M_p' including elements
9 relating to the selected problem-index vector f is produced from the
10 business-operation-index - profit matrix M_p ;

11 input of the gross investment intended to invest in management
12 reforms is accepted by the information processor;
13 a final plan of measures which maximizes the profit of the
14 enterprise is found from the selected plan-of-means vector x' as the potential
15 plans of measures, under the limiting conditions that gross investment
16 necessary to execute the each selected plan of measures is equal or lower
17 than the input gross investment and that the each plan of measures is either
18 adopted or not adopted; and
19 the resultant final plan of measures is output.